

INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>	ATTY. DOCKET NO. 6561/53797	SERIAL NO. 10/788,645
	APPLICANT Friday, et al.	
	FILING DATE 3/5/2004	GROUP
	ART UNIT: 2687	EXAMINER NAME: Casca, Fred A.

al FORM - 1449

SHEET 1 OF 8.

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
Fe	✓	5,564,079	Oct. 8, 1996	Olsson			
Je	✓	6,134,448	Oct. 17, 2000	Shoji et al.			
Il	✓	6,112,095	Aug. 29, 2000	Wax et al.			
Fe	✓	6,115,605	Sep. 5, 2000	Siccardo et al.			
Sl	✓	6,140,964	Oct. 31, 2000	Sugiura et al.			
FC	✓	6,198,935 B1	Mar. 6, 2001	Saha et al.			
Tel	✓	6,212,391 B1	Apr. 3, 2001	Saleh et al.			
Fe	✓	6,269,246 B1	Jul. 31, 2001	Rao et al.			
Fe	✓	6,275,190 B1	Aug. 14, 2001	Sugiura et al.			
Te	✓	6,282,427 B1	Aug. 28, 2001	Larsson et al.			
Fe	✓	6,304,218 B1	Oct. 16, 2001	Sugiura et al.			
Tel	✓	6,415,155 B1	Jul. 2, 2002	Koshima et al.			
Fe	✓	6,249,252 B1	Jun. 19, 2001	Dupray			
Tel	✓	6,414,634 B1	Jul. 2, 2002	Tekinay			
Fe	✓	6,441,777 B1	Aug. 27, 2002	McDonald			
Fe	✓	6,526,283 B1	Feb. 25, 2003	Jang			
Fe	✓	6,556,942 B1	Apr. 29, 2003	Smith			
Fe	✓	6,272,541 B1	Aug. 7, 2001	Cromer et al.			
Fe	✓	6,664,925 B1	Dec. 16, 2003	Moore et al.			
Fe	✓	2005/0136944 A1	Jun. 23, 2005	Misikangas et al.			

EXAM PAPER

DATE CONSIDERED

86/2666

EXAMINER: initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 6561/53797	SERIAL NO. 10/788, 645
		APPLICANT Friday, et al.	
(Use several sheets if necessary)		FILING DATE 3/5/2004	GROUP
		ART UNIT: 2687	EXAMINER NAME: Casca, Fred A.

a1.FORM - 1449

SHEET 2 OF 8.

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE	
FC ✓	2005/0131635 A1	Jun. 16, 2005	Myllymaki et al.				
FC ✓	2005/0128139 A1	Jun. 16, 2005	Misikangas et al.				
FC ✓	2004/0198373 A1	Oct. 7, 2004	Ford et al.				
FC ✓	2004/0176108 A1	Sep. 9, 2004	Misikangas				
FC ✓	2004/0111397 A1	Jun. 10, 2004	Chen et al.				
FC ✓	2004/0072577 A1	Apr. 15, 2004	Myllymaki et al.				
FC ✓	2003/0135486 A1	Jul. 17, 2003	Edlund et al.				
FC ✓	2003/0130987 A1	Jul. 10, 2003	Edlund et al.				
FC ✓	2002/0168958 A1	Nov. 14, 2002	Ford et al.				
FC ✓	2002/0118118 A1	Aug. 29, 2002	Myllymaki et al.				
FC ✓	2002/0115445 A1	Aug. 22, 2002	Myllymaki				
FC ✓	2002/0102988 A1	Aug. 1, 2002	Myllymaki				
FC ✓	6,704,352	03/2004	Johnson, Mitchell K.				
FC ✓	6,754,488	06/2004	Won et al.				
BC ✓	6,243,811 B1	Jun. 5, 2001	Patel				
FC ✓	6,728,782 B1	Apr. 27, 2004	D'Souza et al.				
FC ✓	6,766,453 B1	Jul. 20, 2004	Nessett et al.				
FC ✓	2002/0176366 A1	Nov. 28, 2002	Ayyagari et al.				
FC ✓	6,456,892	Sep. 24, 2003	Dara-Abrams et al.				
FC ✓	6,581,000	Jun. 17, 2003	Hills et al.				
FC ✓	2002/0174335	Nov. 21, 2002	Zhang et al.				
FC ✓	2003/0117985 A1	Jun. 26, 2003	Fujii et al.				

INFORMATION DISCLOSURE STATEMENT			ATTY. DOCKET NO. 6561/53797	SERIAL NO. 10/788,645
(Use several sheets if necessary)			APPLICANT Friday, et al.	
			FILING DATE 3/5/2004	GROUP
			ART UNIT: 2687	EXAMINER NAME: Casca, Fred A.

a1.FORM - 1449

SHEET 3 OF 8.

<i>FC</i>	✓	2003/0135762 A1	Jul. 17, 2003	Macaulay			
<i>FC</i>	✓	6,317,604 B1	11-2001	Kovach, et al.			
<i>FC</i>	✓	5,394,158 A	02-1995	Chia, Si T.S.			
<i>FC</i>	✓	5,327,144 A	07-1994	Stilp, et al.			
<i>FC</i>	✓	5,666,662 A	09-1997	Shibuya, Toshiyuki			
<i>FC</i>	✓	5,732,354 A	03-1998	MacDonald, Alan Denis			
<i>FC</i>	✓	6,140,964 A	10-2000	Sugiura, et al.			
<i>FC</i>	✓	6,167,274 A	12-2000	Smith, Adrian Donald			
<i>FC</i>	✓	6,236,365 B1	05-2001	LeBlanc, et al.			
<i>FC</i>	✓	6,226,400 B1	05-2001	Doll, Joseph			
<i>FC</i>	✓	5,396,582 A	03-1995	Kahkoska, James			
<i>FC</i>	✓	2004/0151377 A1	08-2004	Boose, et al.			
<i>FC</i>	✓	5,028,848	07-1991	Bankston, et al.			
<i>FC</i>	✓	2004/0186847 A1	09-2004	Rappaport, et al.			
<i>FC</i>	✓	2004/0259554 A1	12-2004	Rappaport, et al.			
<i>FC</i>	✓	2004/0259555 A1	12-2004	Rappaport, et al.			
<i>FC</i>	✓	2004/0154134 A1	10-2002	Matsui, Nobuaki			
<i>FC</i>	✓	6,804,394 B1	10-2004	Hsu, Shin-yi			
<i>FC</i>	✓	6,850,946 B1	02-2005	Rappaport, et al.			
<i>FC</i>	✓	2004/0236547 A1	11-2004	Rappaport, et al.			
<i>FC</i>	✓	4,254,467	03-1981	Davis, et al.			
<i>FC</i>	✓	6,134,338 A	10-2000	Solberg, et al.			
<i>FC</i>	✓	6,317,599 B1	11-2001	Rappaport, et al.			
<i>FC</i>	✓	US-6,990,428B1	01-2006	Kaiser, et al.	702/150		

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO. 6561/53797

SERIAL NO.
10/788,645

APPLICANT
Friday, et al.

FILING DATE
3/5/2004

GROUP

ART UNIT: 2687

EXAMINER NAME: Casca, Fred A

aL FORM - 1449

SHEET 4 OF 8.

FC	/	US-6,799,047B1	09-2004	Bahl, et al.	455/456.1	
FC	/	US-6,674,403B2	01-2004	Gray, et al.	342/463	
FC	/	US-5,717,406A	02-1998	Sanderford, et al.	342/457	
FC	/	Us-5,570,412A	10-1996	LeBlanc, Frederick W.	455/456.2	

FOREIGN PATENT DOCUMENTS

INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 6561/53797	SERIAL NO. 10/788,645
(Use several sheets if necessary)		APPLICANT Friday, et al.	
		FILING DATE 3/5/2004	GROUP
		ART UNIT: 2687	EXAMINER NAME: Casca, Fred A.

a1.FORM - 1449

SHEET 5 OF 8.

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)			
<i>je</i>	/	"Ekahau Logical Areas-location enabling the Wi-Fi network." April 4, 2003. Ekahau, Inc., Saratoga, CA. Company's URL: www.ekahau.com	
<i>je</i>	/	"Ekahau Positioning Engine 2.0: Product Overview." April 4, 2003, Ekahau, Inc., Saratoga, CA. URL: http://www.ekahau.com/products/positioningengine/	
<i>je</i>	/	"Ekahau Positioning Engine 2.0: Data Sheet." April 04, 2003. Ekahau, Inc., Saratoga, CA. URL: http://www.ekahau.com/pdf/EPE_2.0_datasheet.PDF	
<i>je</i>	/	"Indoor Positioning in 802.11b Networks." April 04, 2003. Ekahau, Inc., Saratoga, CA. URL: http://www.ekahau.com/products/positioningengine/features.html	
<i>je</i>	/	"InFielder." April 22, 2003. Wireless Valley, Austin, TX. URL: http://www.wirelessvalley.com/Products/InFielder.asp	
<i>je</i>	/	"LANFielder." April 22, 2003. Wireless Valley, Austin, TX. URL: http://www.wirelessvalley.com/Products/LANFielder/LANFielder.asp	
<i>je</i>	/	"Optimatic." April 22, 2003. Wireless Valley, Austin, TX. URL: http://www.wirelessvalley.com/Products/Optimatic/Optimatic.asp	
<i>je</i>	/	"Predictor." April 22, 2003. Wireless Valley, Austin, TX. URL: http://www.wirelessvalley.com/Products/Predictor/Predictor.asp	
<i>je</i>	/	"LANFielder Product Literature." February 10, 2004. Wireless Valley, Austin, TX. URL: http://www.wirelessvalley.com/Assets/brochures/LanFielder.pdf	
<i>je</i>	/	Conley, C.. "Securing WLANS with Location-Enabled Networks." <i>Wireless Security Perspectives</i> , Vol.5, No.3 March, 2003. Organization's URL: www.cnp-wireless.com/wsp.html	
<i>je</i>	/	"Company Information." April 6, 2004. Corsair Communications:A LightBridge Company, Burlington, MA. Company's URL: www.lightbridge.com	
<i>je</i>	/	"Corporate Fact Sheet." Aruba Wireless Networks, San Jose, CA. February 10, 2004. URL: http://www.arubanetworks.com/pdf/corporate_fact_sheet.pdf	
<i>je</i>	/	"Airwave Rogue Access Point Detection." 2002. Airwave Wireless, Inc. San Mateo, CA. URL: http://airwave.com/features.html NO MONTH LISTED	
<i>je</i>	/	Geier, J. "Identifying Rogue Access Points." January 6, 2003. Wi-Fi Planet Tutorials. URL: http://www.wi-fiplanet.com/tutorials/article.php/1564431	
<i>je</i>	/	Brewin, B. "IBM Develops Tool to Detect Rogue Wireless LAN Access Points." June 17, 2002. Computerworld, Framingham, MA. URL: http://www.computerworld.com/mobiletopics/mobile/story/0,10801,72065,00.html	
<i>je</i>	/	Bulusu, N., Heidemann, J., Estrin, D. "GPS-less Low Cost Outdoor Localization for Very Small Devices." IEEE Personal Communications, October 2000. URL: http://lecs.cs.ucla.edu/~bulusu/papers/Bulusu00a.pdf	
<i>je</i>	/	"AeroScout WLAN Location System." Downloaded on November 10, 2003 from http://www.bluesoft-inc.com/wlan.asp Bluesoft, Inc., San Mateo, CA.	

INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 6561/53797	SERIAL NO. 10/788,645
(Use several sheets if necessary)		APPLICANT Friday, et al.	
		FILING DATE 3/5/2004	GROUP
		ART UNIT: 2687	EXAMINER NAME: Casca, Fred A.

a1.FORM - 1449

SHEET 6 OF 8.

<i>fe</i>	✓ "Cognio Announces Breakthrough Location Technology for WLAN Deployments." Downloaded on November 10, 2003 from http://www.cognio.com/press_detail.asp?itemID=70 Cognio, Inc., Waltham, MA.
<i>fe</i>	✓ "WhereNet Main Page." Downloaded November 10, 2003 from http://www.wherenet.com/ WhereNet, Santa Clara, CA.
<i>fc</i>	✓ Small, J., Smailagic, A., and Siewiorek, D.P. "Determining User Location For Context Aware Computing Through the Use of a Wireless LAN Infrastructure." Institute for Complex Engineered Systems. Carnegie-Mellon University, Pittsburgh, PA, 2000. <i>No Month (STR)</i> Available at http://www-2.cs.cmu.edu/~aura/docdir/small100.pdf .
<i>fc</i>	✓ Kishan, A., Michael, M., Rihan, S., and R. Biswas. "Halibut: An Infrastructure for Wireless LAN Location-Based Services." Technical paper for Course CS444n, Computer Science Department, Stanford University, Stanford CA, June 2001. Previously available at http://fern2.stanford.edu/cs444n/paper.pdf .
<i>fe</i>	✓ Bahl, P. and Padmanabhan, V.N. "RADAR: An In-Building RF-based User Location and Tracking System." IEEE Infocom 2000, vol. 2, Mar. 2000, pp. 775-784.
<i>fe</i>	✓ "Positioning in Wireless Networks Reference." Downloaded on July 28, 2005 from http://binary.engin.brown.edu/ . BINARY Group, Division of Engineering, Brown University, Providence, RI. Available online at http://binary.engin.brown.edu/publication/Positioning_Ref.pdf
<i>fe</i>	✓ Chirumamilla, Mohan K. and Ramamurthy, Byrar. "Agent Based Intrusion Detection and Response System for Wireless LANs." IEEE Int'l Conference on Communications, 2003, Vol. 1, pp. 492-496. <i>No Month (STR)</i>
<i>fe</i>	✓ "IBM Research Demonstrates Industry's First Auditing Tool for Wireless Network Security." July 12, 2001, Hawthorne, N.Y. IBM RESEARCH NEWS, 'Online. URL: http://domino.research.ibm.com/comm/pr.nsf/pages/news.20010712_wireless.html
<i>fe</i>	✓ "IBM Researchers Demonstrate Industry's First Self-Diagnostic Wireless Security Monitoring Tool." June 21, 2002, Hawthorne, N.Y. IBM NIEUWS, 'Online! URL: http://domino.research.ibm.com/comm/pr.nsf/pages/news.20020617_dwsa.html
<i>fc</i>	✓ "Assessing Wireless Security with AiroPeek and AiroPeek NX." A WildPackets Academy Tutorial from www.wildpackets.com , WildPackets Inc., Walnut Creek, CA. January 16, 2003. URL: http://www.wildpackets.com/elements/whitepapers/AiroPeek_Security.pdf
<i>fe</i>	✓ "AiroPeek and Wireless Security: Identifying and Locating Rogue Access Points." A WildPackets Academy Tutorial from www.wildpackets.com , WildPackets Inc., Walnut Creek, CA. January 16, 2003. URL: http://www.wildpackets.com/elements/whitepapers/RogueAccessPoints.pdf
<i>fe</i>	✓ Craiger, J. P. "802.11, 802.1x, and Wireless Security." June 23, 2002. From the SANS' Information Security Reading Room on www.sans.org , The SANS Institute, Bethesda, MD. URL: http://www.sans.org/rr/papers/68/171.pdf

INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 6561/53797	SERIAL NO. 10/788,645
(Use several sheets if necessary)		APPLICANT Friday, et al.	
		FILING DATE 3/5/2004	GROUP
		ART UNIT: 2687	EXAMINER NAME: Casca, Fred A.

al.FORM - 1449

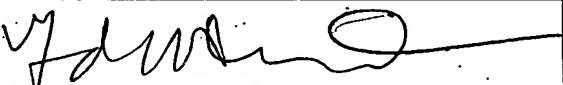
SHEET 7 OF 8.

<i>fc</i>	Baily, S. "Is IEEE 802.1X Ready for General Deployment?" April 7, 2002. From the SANS' Information Security Reading Room on www.sans.org, The SANS Institute, Bethesda, MD. URL: http://www.sans.org/rr/papers/9/709.pdf
<i>fc</i>	"Location Determination Papers", List of publications maintained by Moustafa A. Youssef, Department of Computer Science, University of Maryland, College Park, MD 20742. Available online, and downloaded February 9, 2006 at http://www.cs.umd.edu/~moustafa/location_papers.htm
<i>fc</i>	"Positioning in Wireless Networks Reference" BINARY Group, Division of Engineering, Brown University, Providence, RI 02912, Available online, and downloaded February 9, 2006 as binary.engineering.brown.edu/publication/Positioning_Ref.pdf
<i>fc</i>	L.M. Ni, Y. Liu, Y.C. Lau and A.P. Patil. "LANDMARC: Indoor Location Sensing Using Active RFID." Proceedings of the First IEEE International Conference of Pervasive Computing and Communications 2003 (PerCom '03). <i>NO MONTH LISTED</i>
<i>fc</i>	G. Wolfle, R. Wahl, P. Wertz, P. Wildbolz and F. Landstorfer. "Dominant Path Prediction Model for Indoor Scenarios." German Microwave Conference (GeMIC) 2005, Ulm (Germany), April 2005 Paper.
<i>fc</i>	P. Wertz, G. Wolfle, R. Hoppe, D. Zimmermann and F.M. Landstorfer. "Enhanced Localization Technique within Urban and Indoor Environments based on Accurate and Fast Propagation Models." European Wireless, 2002, Florence, Italy. <i>NO MONTH LISTED</i>
<i>fc</i>	STEVEN FORTUNE, "Algorithms for prediction of indoor radio propagation", sjf@research.att.com, January 7, 1998, Bell Laboratories, Murray Hill, New Jersey 07744, <i>NO MONTH LISTED</i>
<i>fc</i>	A. RAJKUMAR, B.F. NAYLOR, F. FEISULLIN AND L. ROGERS, "Predicting RF Coverage in Large Environments using Ray-Beam Tracing and Partitioning Tree Represented Geometry", submitted to the ACM Journal of Wireless Networks after revision on October 12, 1995, AT&T Bell Laboratories, Murray Hill, NJ 07744.
<i>fc</i>	REINALDO A. VALENZUELA, STEVEN FORTUNE, and JONATHAN LING, "Indoor Propagation Prediction Accuracy and Speed Versus Number of Reflections in Image-Based 3-D Ray-Tracing", 1998, Bell Laboratories, Lucent Technologies, Holmdel, NJ 07733 <i>NO MONTH LISTED</i>
<i>fc</i>	BAHL, P., PADMANABHAN, V. and BALACHANDRAN, A. A Software System for Locating Mobile Users: Design, Evaluation and Lessons. Microsoft Research Technical Report MSR-TR-2000-12 [online], April 2000 [retrieved on 2006-01-26]. Retrieved from the Internet: < URL: http://research.microsoft.com/~padmanab/papers/radar.pdf >
<i>fc</i>	PCT Notification of Transmittal of The International Search Report and The Written Opinion of the International Searching Authority, or the Declaration (PCT Rule 44.1), dated 11 January 2006, International Application No. PCT/US05/06608)
<i>fc</i>	1 st Office Action from U.S. Patent No. 10/802,366, the application which was filed on March 16, 2004, entitled "LOCATION OF WIRELESS NODES USING SIGNAL STRENGTH WEIGHTING METRIC"

INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 6561/53797	SERIAL NO. 10/788, 645
		APPLICANT Friday, et al.	
(Use several sheets if necessary)		FILING DATE 3/5/2004	GROUP
		ART UNIT: 2687	EXAMINER NAME: Casca, Fred A.

a1.FORM - 1449

SHEET 8 OF 8

<i>FR</i>	<input checked="" type="checkbox"/> 2nd Office Action from U.S. Patent No. 10/802,366, the application which was filed on March 16, 2004, entitled "LOCATION OF WIRELESS NODES USING SIGNAL STRENGTH WEIGHTING METRIC"		
<i>FR</i>	<input checked="" type="checkbox"/> Office Action from U.S. Patent No. 10/794,842, the application which was filed on March 5, 2004, entitled "Selective Termination of Wireless Connections to Refresh Signal Information in Wireless Node Location Infrastructure"		
<i>FR</i>	<input checked="" type="checkbox"/> Office Action from U.S. Patent No. 10/848,276, the application which was filed on May 18, 2004, entitled "Wireless Node Location Mechanism Featuring Definition of Search Region to Optimize Location Computation"		
EXAMINER		DATE CONSIDERED	<i>06/26/06</i>

*EXAMINER: initial if citation considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 6561/53797	SERIAL NO. 1C/788,645
<i>(Use several sheets if necessary)</i>		APPLICANT Friday, et al.	
		FILING DATE 3/5/2004	GROUP
		ART UNIT: 2687	EXAMINER NAME: Casca, Fred A

FORM - 1449

SHEET 1 OF 1.

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

fl ✓ PCT Notification of Transmittal of The International Search Report and The Written Opinion of the International Searching Authority, or the Declaration (PCT Rule 44.1), dated 31 March 2006, International Application No. PCT/US05/05927)

EXAMINER		DATE CONSIDERED	06/26/02
----------	---	-----------------	----------

*EXAMINER: initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to Applicant.